

# EUROPEAN PATENT OFFICE

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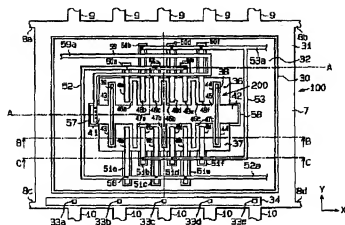
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TITLE : ANGULAR VELOCITY SENSOR AND ITS MANUFACTURE



ABSTRACT : PROBLEM TO BE SOLVED: To make possible the accurate detection of angular velocity.

SOLUTION: An outer-side structural body 100 with beams 8a-8d to oscillate in a direction parallel with the surface of a silicon substrate 1 is partitioned by through holes formed in the substrate 1. An inner-side structural body 200 with beams 43 and 44 to move in an X direction intersecting an oscillating direction Y at right angles in parallel with the surface of the substrate 1 by angular velocity is partitioned by through holes 36-39 formed in the structural body 100. The fixed electrodes 48a-48f and 49a-49f for detecting angular velocity of the structural body 100 and the movable electrodes 46a-46c and 47a-47c for detecting angular velocity of the inner-side structural body 200 opposed to the fixed electrodes 48a-48f and 49a-49f of the structural body 100 are electrically separated by insulators 50a-50f, 51a-51f, 57, and 58 in the through holes formed in the structural body 100.

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